

Tracker M8 Temperature/Humidity⁽⁰⁰¹⁾



The M8 Temperature/Humidity sensor provides an easy way to measure temperature and humidity with the Tracker One. It connects to the M8 connector on the outside of the Tracker One.

- IP 67 waterproof rating
- Durable, weatherproof, metal casing
- $\pm 0.5^{\circ}\text{C}$ temperature accuracy
- $\pm 2\%$ relative humidity accuracy
- Temperature range -22°C to 80°C
- 120 cm. (47.25 inch) cable
- The Tracker One preserves its IP67 waterproof rating with the M8 connector in use

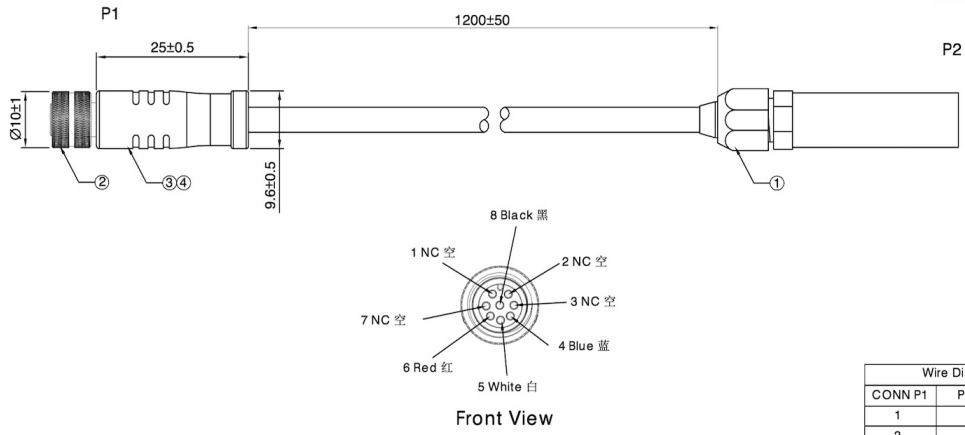
DETAILS

The sensor (in the metal case) is a weatherproof [Sensiron SHT-31D](#), I2C temperature and humidity sensor.

The sensor is powered by the CAN_PWR output on the M8 connector. It can be powered down when not sensing temperature to reduce power consumption, if desired.

The cable assembly contains a 3.3V voltage regulator, as the I2C interface on the Tracker One is limited to 3.3V.

DIAGRAM



CONN P1	P1 COLOR
1	NC
2	NC
3	NC
4	(SDA) Blue 藍
5	(SCL) White 白
6	(VCC) Red 紅
7	NC
8	(GND) Black 黑

Bill Of Material

No.	Vendor	NAME	Material Name and Name	Unit	Qty
3	CXQS123	Molding	Outer Over Moulding BLACK 85A TPU	g	
2	CXQS142	CONN.	M8, 8 Pin, Female, Connector	PCS	1
1	CXQS061	CONN.	T118 SOIL TEMPERATURE AND HUMIDITY SENSOR CONTAINS WIRE	PCS	1

FIRMWARE LIBRARY

The [Particle sht3x-i2c library](#) can be used to communicate with this sensor from user firmware.

- I2C address: 0x44
- I2C maximum speed: 400 MHz
- Tracker One interface: `Wire3`

The [M8 Temperature/Humidity Sensor Tutorial](#) includes additional information for using the library and this sensor.

ORDERING INFORMATION

SKU	Description
M8TEMPHUMIEA	M8 Temperature and humidity sensor, (x1)
M8TEMPHUMITY	M8 Temperature and humidity sensor, (x40)

Revision history

Revision	Date	Author	Comments
001	2021 Mar 01	RK	First release